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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR		
10/663,283	09/16/2003	TIGH NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
		Akiyasu Kaneko	3557G-000041	3217
	11/1/2004		EXAMINER	
HARNESS, DICKEY & PIERCE, P.L.C. P.O. BOX 828			DOUYON, LORNA M	
BLOOMFIELD HILLS, MI 48303			ART UNIT	PAPER NUMBER
			1751	
			DATE MAILED: 11/17/2004	l

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Summan	10/663,283	KANEKO, AKIYASU
Office Action Summary	Examiner	Art Unit
	Lorna M. Douyon	1751
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet w	ith the correspondence address
A SHORTENED STATUTORY PERIOD FOR RI THE MAILING DATE OF THIS COMMUNICATION Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by some Any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	ON, FR 1.136(a). In no event, however, may a r n. a reply within the statutory minimum of thirt eriod will apply and will expire SIX (6) MON	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication
Status		
1) Responsive to communication(s) filed on 1	16 Santambar 2002	
	This action is non-final.	
3) Since this application is in condition for allo	OWANCE except for formal matter	ars proposition == 4= 4
closed in accordance with the practice und	ler Ex parte Quavle. 1935 C.D.	11 453 O.C. 212
Disposition of Claims	,,, 1000 J.D.	, 700 O.O. 213,
4) Claim(s) 1-10 is/are pending in the applicat	tion.	
4a) Of the above claim(s) is/are without 5) Claim(s) is/are allowed.	drawn from consideration.	
6)⊠ Claim(s) <u>1-10</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and	d/or plantian results	
	d/or election requirement.	•
opplication Papers	•	
9)☐ The specification is objected to by the Exam	iner.	
10) The drawing(s) filed on is/are: a) a	ccepted or b) objected to by	the Examiner
Applicant may not request that any objection to the	he drawing(s) be held in abevance	See 37 CER 1 95(a)
Replacement drawing sheet(s) including the corre	ection is required if the drawing/s	lic chicotad to Co. 07 and a co.
11) The oath or declaration is objected to by the	Examiner. Note the attached (Office Action or form PTO-152
riority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign	an priority and 05 H o o	
a) ☐ All b) ☐ Some * c) ☐ None of:	gir priority under 35 U.S.C. § 1	19(a)-(d) or (f).
1. Certified copies of the priority docume	ints have been received	
2. Certified copies of the priority docume	ints have been received in Ann	diameter as
3. Copies of the certified copies of the pri	iority documents have been re	solvied in this National Co
application from the international Bure	au (PCT Rule 17 2/a))	
	st of the certified copies not red	Ceived
* See the attached detailed Office action for a lis		
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* See the attached detailed Office action for a lis	33,000,000	
* See the attached detailed Office action for a lis		
* See the attached detailed Office action for a list achment(s) Notice of References Cited (PTO-892)	4) ☐ Interview Sum	mary (PTO-413)
* See the attached detailed Office action for a lis	4)	

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Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1, 4 and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Thenappan et al. (US Patent No. 6,010,997), hereinafter "Thenappan '997".

Thenappan '997 teaches a composition consisting essentially of from about 89-99 wt% 1-bromopropane (n-propyl bromide), 1-11 wt% nitromethane, and 1-10 wt% methyl-2-propanol (see Example on Table 1 under col. 4, lines 34-39; claim 1). Thenappan '997 teaches the limitations of the instant claims. Hence, Thenappan '997 anticipates the claims.

3. Claims 1, 2, 4 and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Thenappan et al. (US Patent No. 6,048,832), hereinafter "Thenappan '832".

Thenappan '832 teaches a composition consisting essentially of 50-99 wt% 1-bromopropane, 1-50 wt% HFE-7100 (a fluorine-based solvent which is 4-methoxy-1,1,1,2,2,3,3,4,4-nonafluorobutane) and 0.4-11.0 wt% nitromethane (see col. 1, lines 60-61; Example on Table 1 under col. 4, lines 60-62). Thenappan '832 teaches the limitations of the instant claims. Hence, Thenappan '832 anticipates the claims.

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4. Claims 1, 4, 6, 8 and 9 are rejected under 35 U.S.C. 102(e) as being anticipated by Doyel et al. (US Patent No. 6,689,734), hereinafter "Doyel".

Doyel teaches chemical solvating, degreasing, stripping and cleaning agents (see abstract). Doyel teaches a binary composition consisting of 84-99.9 weight percent n-propyl bromide (NPB) and 0.1-16 weight percent nitromethane (see col. 11, lines 3-4). Doyel also teaches a binary composition consisting of 94 weight percent NPB and 6 weight percent nitromethane (see col. 11, lines 42-43). In Example 75, Doyel teaches a ternary composition consisting of 75 wt% 1-bromopropane, 20 wt% HFE-7100 and 5 wt% n-methyl pyrrolidone (see Table 3 under cols. 17-18). Doyel teaches the limitations of the instant claims. Hence, Doyel anticipates the claims.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 2, 3, 5, 7 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Doyel as applied to the above claims.

Doyel teaches the features as described above. In addition, Doyel teaches that the agents are cleaning and solvating mixtures of brominated compounds like 1-bromopropane and 2-

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bromopropane with highly fluorinated compounds like HFE-7100 and/or other agents like pyrrolidones and nitromethane, among others (see abstract; col. 5, lines 55-56; col. 6, lines 33-35; col. 11, lines 3-4). In Table 1 under cols 13-16, Doyel provides proportions of the brominated compounds with fluorinated compounds and other materials. Doyel, however, fails to specifically disclose a composition comprising 1-bromopropane or 2-bromopropane and nitromethane with fluorinated compounds or n-methyl pyrrolidone, or a composition comprising comprising 1-bromopropane or 2-bromopropane and n-methyl pyrrolidone having a content from 10-85 wt%.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate fluorinated compounds or n-methyl pyrrolidone to a composition comprising 1-bromopropane or 2-bromopropane and nitromethane because Doyel teaches that brominated compounds are mixed with fluorinated compounds and other agents like pyrrolidones, and to optimize the proportions of the n-methyl pyrrolidone through routine experimentation for best results. As to optimization results, a patent will not be granted based upon the optimization of result effective variables when the optimization is obtained through routine experimentation unless there is a showing of unexpected results which properly rebuts the *prima facie* case of obviousness. See *In re Boesch*, 617 F.2d 272, 276, 205 USPQ 215, 219 (CCPA 1980). See also *In re Woodruff*, 919 F.2d 1575, 1578, 16 USPQ2d 1934, 1936-37 (Fed. Cir. 1990), and *In re Aller*, 220 F.2d 454, 456, 105 USPQ 233, 235 (CCPA 1955).

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Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure. The references are considered cumulative to or less material than those discussed

above.

8. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Lorna M. Douyon whose telephone number is (571) 272-1313.

The examiner can normally be reached on Mondays-Fridays from 8:00AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Yogendra Gupta can be reached on (571) 272-1316. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lorna M. Douyon
Primary Examiner

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